Culligan Platinum Series and Culligan Gold Series Standard Programming Instructions

Use this sheet to assist in programming the Culligan Platinum Series and Gold Series water softeners. Please refer to the Culligan Platinum Series and Culligan Gold Series Installation and Operation Manual if modifications need to be made to the programming options.

Make sure the inlet water supply is turned off, then connect power to the unit. The display will power-up flashing "12:00 PM". The motor will energize and cycle the control without stopping to the home position.

DIP Switches

The controller uses DIP switches as a means of programming specific options. Options to be programmed are as follows listed in the Off / On position:

H24 Dips

- DIP #1 – Run / Test
- DIP #2 – Softener / Filter
- DIP #3 – Control Selection
- DIP #4 - Control Selection
- DIP #5 – Slow / Fast Refill
- DIP # 6 – Delayed / Immediate
- DIP #7 – English / Metric
- DIP #8 – 12 HR / 24 HR
- DIP #9 – Advanced Off / On
- DIP #10 – Time Clock Backup Off / On

Run/Test	1
Soft/Fil	2
Control Select	3
Control Select	4
Slow/Fast	5
Delay/Immed	6
Eng/Met	7
12hr/24hr	8
Advanced	9
TCB	10

DIP Switch 3 & 4 are used to select the control type as shown below:

GOLD   PLAT   EURO   OTHR   3   OFF / ON
                                4
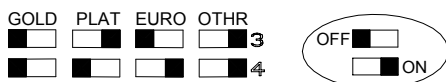
DIP Switch 5 is set to the OFF position for 9" & 10" tanks (0.45 gpm brine refill flow control) and to the ON position for 12", 14" & 16" tanks (0.80 gpm brine refill flow control).

Display Icons

The display is backlit and has the icons as shown below:

REGEN   TODAY'S AVG DAILY   SOFTWATER
EFFICIENCY MODE   WATER USAGE   REMAINING
PM
%
MINS
AM
BACKWASH   BRINE RINSE   FAST RINSE/ REFILL
GALLONS   LITERS   FLOW RATE   GPM LPM
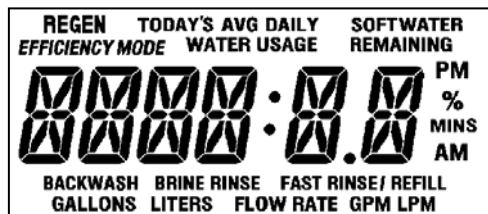
Programming

- **Beeper Setting –** This setting is used to turn the beeper on or off for each key press actuation. The display will show "bEEP X"

  bEEP   Y

  where X is either "Y" or "N" The "Y" or "N" are toggled with the ▲ and ▼ keys. Setting the beep option to "N" will only disable the beeper for key press actuation. It is still active for error and alarm codes.

  Press the "Status key to save the setting and move to the next programming step.

- **Time of Day –** This setting programs the current time of day. The display will first show "tod" for two seconds.

  tod

  Minutes Flashing

  After "tod" is displayed, "12:00 PM" will display (or the current set time if already programmed) and the minutes will flash. Adjust the minutes with the ▲ or ▼ key.

  12:00 PM

Hours Flashing

Press the "Regen" key to flash hours. Adjust the hours with the ▲ or ▼ key.

12:00 PM

Press the "Status key to save the setting and move to the next programming step.

- **Time of Regeneration –** This setting is used to program the time at which a regeneration occurs in the delay mode or when time clock backup is enabled in immediate mode. The display will show "tor" for two seconds.

  tor

  After "tor", the display will show "2:00 AM" (or the current time of regeneration if already programmed). The time is adjusted in 30 minute increments with the ▲ or ▼ key.

  2:00 AM

  Press the "Status key to save the setting and move to the next programming step.

- **Hardness Setting (Flow Meter Only)–** This setting is used to input the hardness (grains) of the influent water supply. The display will show "HArd" for two seconds and then display the hardness default (or previously programmed value). Adjust the value with the ▲ or ▼ key.

  HArd

  10

  Press the "Status" key to move to the next programming step. The value will not be saved until the "Status" key is pressed after the Defaults programming step.

- **Iron Setting (Flow Meter Only) –** This setting is used to set the iron level (PPM) of the influent water supply. "IRON" is displayed in the left most digits and the iron default setting (or previously programmed value) in the far right digit. Adjust the value with the ▲ or ▼ key.

  IRON   0

  Press the "Status" key to move to the next programming step. The value will not be saved until the "Status" key is pressed after the Defaults programming step.

- **Salt Type (Flow Meter Only) –** This setting is used to select the regeneration salt type – Sodium Chloride (NaCl) or Potassium Chloride (KCl). The display will show "SALt" for two seconds and then "NACL" (or previously
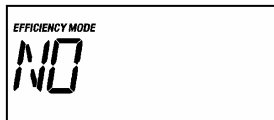
  SALt

  NACL

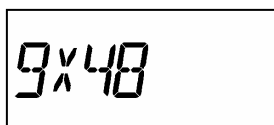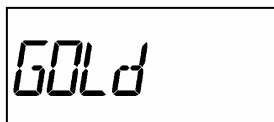programmed value), Toggle between "NACL" and "KCL" with the ▲ or ▼ key.

Press the "Status" key to move to the next programming step. The value will not be saved until the "Status" key is pressed after the Defaults programming step.

- **Efficiency Mode (Flow Meter Only) –** Efficiency mode will only be available if the hardness is 20 gpg or less and iron is 0 PPM (Mode is not available if DIP switch

EFFICIENCY MODE

NO

#6 or #9 are on). The "EFFICIENCY MODE" icon will display with a default of "NO". Toggle between "NO" and "YES" with the ▲ or ▼ key.

Press the "Status" key to move to the next programming step. The value will not be saved until the "Status" key is pressed after the Defaults programming step.

- **Gold or Platinum Tank Size (Flow Meter Only) –** This setting is used to input the size tank that the control is connected to. The display will show "GOLd" (or "PLAtIN") for two seconds and then display the tank size default (or previously programmed value). Adjust the tank size with the ▲ or ▼ key.

GOLd

9x48

Press the "Status" key to move to the next programming step. The value will not be saved until the "Status" key is pressed after the Defaults programming step.

- **Defaults (Flow Meter Only) –** This setting allows the control to automatically set the values of salt dosage, cycle times, batch capacity and total capacity based on the above inputted values. The display will show "dEFLtS" for two seconds and then display "YES". Toggle between "YES" and "NO" with the ▲ or ▼ key.

dEFLtS

YES

If "YES" is selected, then pressing the "Status" key will save the automatically set values and move to the next programming step.
If "NO" is chosen, then the options for cycle times, salt dosage, batch capacity and total capacity will be available with successive presses of the "Status" key.
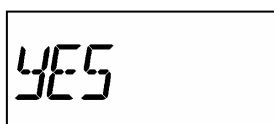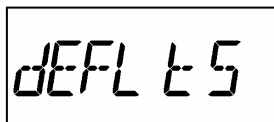
- **View (Flow Meter Only, Defaults Yes) –** This setting allows the programmer to view the calculated and looked up values for salt dosage, cycle times, batch capacity and total capacity. The values can only be viewed and not changed. The display shows "View N".   Toggle between "N"

VIEW N

and "Y" with the ▲ or ▼ key. If "Y" is selected, successive presses of the "Status" key will cycle through the values. If "N" is selected, pressing "Status" will exit programming mode and return to the time display.
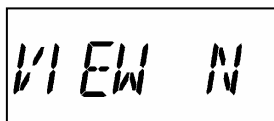
- **Salt Dosage (Aqua-Sensor) –** This setting is used to set the salt dosage. The display shows "doSAGE" for two seconds and then "LbS XX" where XX is the salt dosage in pounds. Adjust the dosage with the ▲ or ▼ key.
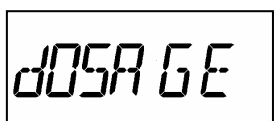
dOSAGE

Press the "Status key to save the setting and move to the next programming step.

LbS   7
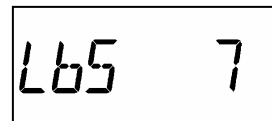
- **Backwash (Aqua-Sensor) –** This setting is used to set the backwash time in minutes. The display shows the "BACKWASH" and "MINS" icons along with XX in the rightmost digits where XX represents the time in minutes for

10 MINS

BACKWASH

backwash. Adjust the minutes with the ▲ or ▼ key.

Press the "Status" key to save the setting and move to the next programming step.

- **Brine Rinse (Aqua-Sensor) –** This setting is used to set the brine rinse time. The display shows the "BRINE RINSE" and "MINS" icons along with 99 (or previously

99 MINS

BRINE RINSE

programmed value) in the rightmost digits where 99 represents the time in minutes for brine rinse. Leaving the value at the 99 minute default enables the brine rinse out alarm function. Adjust the minutes with the ▲ or ▼ key.

Press the "Status" key to save the setting and exit programming mode to return to the time display.

Manual Control Cycling

The control can be manually cycled through a regeneration to troubleshoot the control or verify that the set-up is complete. A manual cycling of the control is accomplished by following the steps as outlined below:

1. While in the service mode, press the "Statistics" key.

2. Press the ▲ key to display the current motor position. If a flow meter is attached the display will have a "F" in the leftmost position, an Aqua-Sensor will show "A" in the next position. If in the service

FA   HM

(Home) position the rightmost digits will alternate between "HM" and "00 MINS".

3. Press and hold the "Regen" key for 5 seconds until the regeneration is started. Once regeneration is active, the "Regen" key will be ignored until the control returns to the service or "home" position.

4. The "REGEN" icon will flash and the control will cycle to the Backwash position. When in the Backwash position the display will continue to flash the "REGEN" icon and in addition

REGEN

10 MINS

BACKWASH

display the "BACKWASH" and "MINS" icons and the time remaining for the cycle in the rightmost digits ("F" or "A" will also show as in 2 above if applicable).

5. Press the ▲ key to cycle to the next position and remain there until the cycle times out or the control is manually indexed.

6. Repeat step 5 until the control returns to the service (Home) position. In order to step through the cycles again, repeat at step 3.